## Services of the University of Nebraska to the State



UNIVERSITY of NEBRASKA - Down-town campus.

ing Nebraska what it is today and plac-

The college of agriculture educates young and dairy work which enables them at the farm. There are about 500 of these on later. ple engaged in dairying and farming how

to get the best results for their labors. The school of agriculture is intended to give the boys and girls of the state who have passed the eighth grade in their studies a chance to become experts in the agricultural lines. About 700 are connected with this school, who, as they graduate, will go back to the farm with new and better ideas of compelling the soll to give up its best to the tiller.

Many of the graduates of the school of agriculture go out as teachers in rural schools, the instruction received at the school fitting them especially for this line of teaching and they are in demand from all over the state so that as the years go by scientific methods in farmng will be instilled into the men and en of the farm and the best results will be reached.

give. Under his direction the College of facts shown in its printed bulletins covfarmers in the state by its investigation help to the fruit grower. The work done

DVANTAGES which the agri- lected strain, and we are still working to orchard. cultural interests of Nebraska set strains which will give sarge yields. have received from the state a stift straw, ripen early and good quality. The work of the experiment station in university through the college of grain with high gluten proportion. We developing the best rations for fattenof agriculture and the school have wheat harvested right now (June ing cattle and hogs is recognized all over of agriculture cannot be es- 22) which is about ten days earlier than the state. At the North Platte experiment These three schools, or rather the common varieties.

tion of the first, has enabled the boys and ered that the early varieties of oats are pork production. Alfalfa pasture, with giris of the farm to receive an educa-much superior to the late. The Kherson a medium ration of corn in summer and tion along farm and dairy lines which leads in this respect. The Burt, Texas alfalfa hay with a full ration of corn in has been one of the big factors in maknearly at the same time as the Kherson, any other rations used. With the use of ing it among the very first in the agrigrain, and especially oats, that will ripen saved. This would men \$20,000,000 a year men and women along lines of agriculture and dairy work which enables them at mon variety that it is likely to escape hogs. the close of their courses to go back to the dry weather which is usually harm- the farm better fitted for the work of ful to the common varieties which come when the price is extremely high, it has

students in the college at the present "We have done a great deal of work on time. Of those who graduate, both men seed selection of corn. In tests carried and women, about 75 per cent either re- on we have co-operated with the farmer turn to the farm or into some profession in the eastern portion of the state, where where their education received at the about ten varieties have been grown by farm will fit in with their work. Many each man, and have selected the two best go out as instructors in other colleges or producers, which outyield the others by as farm demonstrators teaching the peo- about eighteen bushels per acre. This indicates that every corn grower should alse the corn best adapted to his soil. nd also to the climate, and he will not et the best results unless the seed is alsed and selected in his own locality. In some years seed corn selected early n the field has proven quite superior to that selected later from the crib, and we advocate the selection in the field as showing the best results."

Plant Diseases.

According to Dean Burnett, in some counties plant diseases have been seand the department has many interesting vestigations having economic bearing canker has been so successful that thousands of trees have been and will be "We spent," said Dean Burnett to a saved, which otherwise might have died types of Red Turkey wheat, and are now by that disease had been killed nearly imroducing three or four selections for half way around the main trunk of the arm purposes. There are probably fifty tree. Treatment was given it and today

Stock Experiments. farm more than 2,000 hogs have been fed "In our investigations we have discov- to determine the cheapest method of

> paid to feed protein concentrates, like tankage or oil meal, along with the corn. In feeding catle, experiments made have shown that alfalfa hay and corn have some instances the addition of corn silage has cheapened the cost of gain. In other instances, while it has not cheapened the cost, the use of the silo has greatly increased the number of cattle which could be kept on the farm

When the experiment station began studying rations for fattening cattle. probably three-fourths of all the cattle in the state were fattened on corn and prairie hay. This ration has been found to be too expensive and has been almost abandoned, or if forced to use prairie hay, cotton or linseed oil meal has been investigations. added to the corn ration.

Development of Dairy Industry. The experiment station has helped to develop the dairy interests of the state areas. vere, and the college has helped the by showing how to feed and handle the parties the state furnishes a man for most cases to check the operation of parfarmer to treat the grain, and it has dairy cow so as to increase the quality been to much benefit, especially in the and production of milk. The average yield case of oats. Where the formaldehyde of butter per cow in the experiment statreatment has been used the yield in tion-herd is over 400 pounds per cow per creased to about twelve bushels per acre, annum. while the average of the increasing the value of each acre about \$5, cows of Nebraska is about 140 Some work has been done to help pounds. This difference is due to the Under the direction of Dean Burnett orchardists to get rid of disease. Spray- selection of good individual cows, the every effort is being made to give the ing demonstrations have been carried on use of high grade sires and good feed-students of the two schools the best in five or six counties for several years, ing and management. The college of Agriculture has influenced the types of ering the spraying proposition and its there are now a half dezen in the state. In the Douglas county association the of farm problems and carrying results of in treating trees attacked by the Illinois best herd made an average of 315 pounds and the poorest 174 pounds. The ten most profitable cows made a test of \$100.28 to the United States bureau of soils, per cow, while the poorest ten only rewspaper representative who called upon from the disease. In one instance Dean averaged \$5.78 per cow. This in fiself is him. "fifteen years selecting the best Burnett showed where a tree attacked a story with a moral which does not have to be stated

terests. It will cost when completed in and the industries based thereon. The oball departments about \$175,000.

serum plant, is doing a great deal to est use in conservation and development. assist the farmers in the prevention and It is on this account that the department control of hog cholera. Enough serum is given the name, conservation and soil will be produced this year to vaccinate survey. nearly 700,000 hogs.

The capacity of the serum plant has the department by many persons who been increased by the erection of new make inquiries relative to the different

Agricultural College extension. proved the most profitable rations. In States, now under construction; a new department is the means of saving many and a heating plant are also under conor handling students.

Conservation and Soil Survey. The proposition of conservation and soil survey covers considerable territory However under the supervision of Dr. George E. Condra the territory has been greatly minimized by the use of the motion picture machine and the soil survey

In the soil survey seventeen counties in the field working on four additional quests the operators to withdraw from In the make-up of the survey the state. each one furnished by the government ties who could not meet the require The work is very strenuous and long ments of the law. walk of more than twenty miles and fif through its director, who has had conteen or twenty borings.

The first thing in the work is to determine the various types of soil in each county and map them out on a large scale map. Everything is shown. When be a simple matter for those who under-A description of this practice the survey is instrumental in increasing the efficiency of the land.

Reports of field work are the office at the university and forwarded published these reports and maps consined therein are eagerly sought by citiens of the respective counties. They are of use among the farmers, in the schools

men in the state now growing this se- it is as healthy as any other tree in the clittles provided for developing dairy in- made to overestimate the soil resources Manufacture of Hog Cholera Serum. basis for development and to derive such The college, through its hog cholera information thereby as will be of great-

> and sanitary buildings, so that probably kinds of soil and their best management. there is no plant in the state that can The number of these inquiries is large. turn out a better quality of serum, so Probably no phase of the work of the that work of this kind has been of great conservation and soil survey has atvalue in protecting hogs of the state tracted more attention than its duty under the blue sky law. The statutes provide that the conservation and soil survey The appropriations which have been shall investigate and report upon the sale made by the legislature for extending of foreign lands in the state when rethe plant of the agricultural college will quested so to do. In case the sales are greatly facilitate the work of the college found to be fraudulent the department rein assisting the farmer. A new dairy ports the same to the attorney general, building, one of the best in the United whose duty it is to prosecute. Thus the building of agricultural engineering will thousands of dollars to Nebraskans. The be started this year; a new horse barn presence of such a law on the statute struction and when completed these will venting fraudulent dealers from seeking nearly double the capacity of the plant to operate in Nebraska. The department other states and with the federal depart-

> offered for sale. in case the facts thus derived do not tally with the representations made by the agents, and if the parties seeking to sell do not have credit, or if after investigation it appears that they can have been completed and parties are now convey no valid title the department re-

ments, is in a position to gather informa-

The conservation and soil survey has, supply department of the government, passed upon water supplies in many lonendations which will be of great state. One principle thus set forth is that on shallow water ground, as on valley floors, wells should be placed up valley from the house, privy vault or flow before it becomes polluted. A study

of the location of wells has shown that

they are, as a rule, not placed so as t

conserve health.

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